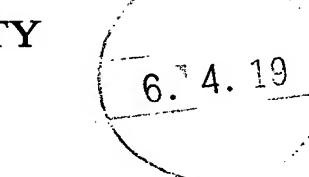
PATENT COOPERATION TREATY

PCT



INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty) (PCT Article 36 and Rule 70)

Applicant's or agent's file reference S-20	FOR FURTHER ACT	TION	See Form PCT/IPEA/41	16
International application No. PCT/JP2005/007196	International filing date (da		Priority date (day/mont	•
International Patent Classification (IPC) o Int.Cl. B23K20/12(2006.01), 1 H01M8/04(2006.01), H	F02M21/02(2006.0	01), F17C1/02('2006.01), H01M8	/00 (2006.01),
Applicant SHOWA DENKO K.K.				
1. This report is the international p Authority under Article 35 and tra	ansmitted to the applicant	according to Article	36.	minary Examining
 This REPORT consists of a total of This report is also accompanied by 	·	_	heet.	
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sheets of the des	sheets, as follows: scription, claims and/or dra ntaining rectifications auth nstructions).			_
beyond the discless Supplemental Bo		application as filed,		
containing a sequence lis	and number of electronic c sting and/or tables related to be Listing (see Section 802	thereto, in electronic	• •	n the Supplemental
4. This report contains indications re	elating to the following ite	ms:		
Box No. I Basis of the	report			J
Box No. II Priority	•			
Box No. III Non-establis	shment of opinion with reg	gard to novelty, inver	ntive step and industrial a	applicability
Box No. IV Lack of unit	ty of invention			
	tatement under Article 35(2 d explanations supporting	, –	elty, inventive step or indu	ustrial applicability;
Box No. VI Certain docu	uments cited			
Box No. VII Certain defe	ects in the international app	plication		
Box No. VIII Certain obse	ervations on the internation	nal application		
Date of submission of the demand		Date of completion of	 of this report	
31.10.2005			10.04.2006	•
Name and mailing address of the IPEA/JP		Authorized officer		3P 9257
Japan Patent Offic	æ	KATO, Masa	hito	
3-4-3, Kasumigaseki, Chiyoda-ku, Toky	yo 100-8915, Japan	Telephone No. +81	-3-3581-1101 Ext.	3364

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2005/007196

Box No.	Basis of the report		
	ith regard to the language, this report is base		
	the international application in the language	ge in which it was filed	
	a translation of the international appl	ication into	, which is the language of a
	translation furnished for the purposes of	of: .	
	international search (Rules 12.3(a) a	and 23.1(b))	•
	publication of the international appli	ication (Rule 12.4(a))	
	international preliminary examination	on (Rules 55.2(a) and/or 55.3(a))	
		nal application, this report is based on (repla	
		an invitation under Article 14 are referred to i	n this report as "originally filed"
and	d are not annexed to this report):	•	
	the international application as originally	y filed/furnished	
	the description:		
	pages	·	as originally filed/furnished
	pages*	received by this Authority on	
	pages*	received by this Authority on	
	the claims:		
	Nos.		as originally filed/furnished
	Nos.*	as amended (together with	as originally incurtarinshed any statement) under Article 19
	Nos.*	received by this Authority on	any statement) under Article 19
	Nos.*	received by this Authority on	
	· · · · · · · · · · · · · · · · · · ·		
	the drawings:		
	ets/figs	· · · · · · · · · · · · · · · · · · ·	as originally filed/furnished
	ets/figs *	received by this Authority on	
she	ets/figs *	received by this Authority on	
	a sequence listing and/or any related table	le(s) - see Supplemental Box Relating to Sequ	ence Listing
J :	a soquence instilling and/or any related table	io(s) see Supplemental Dox Relating to Sequ	once Disting.
3.	The amendments have resulted in the car	acellation of:	
J• ¥§		deciration of.	
	the description, pages		
	the claims, Nos.		
1.0	the drawings, sheets/figs		
	the sequence listing (specify):		
	any table(s) related to sequence lis	sting (specify):	
4. 🗀	•	me of) the amendments annexed to this report to go beyond the disclosure as filed, as indic	
	the description, pages		
	the claims, Nos.		
	the drawings, sheets/figs	· · · · · · · · · · · · · · · · · · ·	
	the sequence listing (specify):	_	
	any table(s) related to sequence lis	ting (specify)	
* If:			
11 item	a 4 applies, some or all of those sheets may b	e markea "superseded."	

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/JP2005/007196

Statement			
Novelty (N)	Claims	1-17	. YE
	Claims		NO
Inventive step (IS)	Claims	1-17	YE
•	Claims		NO
Industrial applicability (IA)	Claims	1-17	YE
	Claims		· NO

Document 1: US 6364197 B1 (THE BOEING COMPANY) 2002.04.02,

All Documents, All Drawings (Family : None)

Document 2: US 5697511 A (BOEING NORTH AMERICA, INC.) 1997.12.16,

All Documents, All Drawings & JP 10-160097 A

Document 3: JP 9-42595 A(TOYODA GOSEI CO., LTD.) 1997.02.14,

All Documents, All Drawings (Family : None)

The subject matter of claim 1-17 is considered to involve an inventive step over the documents cited in the international search report.

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/JP2005/007196

Application	on No.	Publication date	Filing date	Priority date (valid claim)
Patent 1	<u>Чо.</u>	(day/month/year)	(day/month/year)	(day/month/year)
WO 2005/01		17.02.2005	06.08.2004	08.08.2003
JP 2004-2 「E, P		29.07.2004	27.12.2002	
JP 2004-2 Γ _{E, P}		21.10.2004	12.03.2004	13.03.2003
JP 2004-3	•	18.11.2004	25.04.2003	•

W0 2005/015074 A1 17.02.2005 06.08.2004 08.08. [E, A] JP 2004-209499 A 29.07.2004 27.12.2002 [E, A] JP 2004-293785 A 21.10.2004 12.03.2004 13.03. [E, A] JP 2004-324781 A 18.11.2004 25.04.2003 [E, A] Non-written disclosures (Rules 70.9) Kind of non-written disclosure Date of non-written disclosure referring to non-written to non-written disclosure referring to non-written to non-writte	.2003
Date of written disclosure Date of non-written disclosure Da	
JP 2004-324781 A 18.11.2004 25.04.2003 [E, A] Non-written disclosures (Rules 70.9) Kind of non-written disclosure Date of non-written disclosure Date of non-written disclosure	
Non-written disclosures (Rules 70.9) Date of written discharge Kind of non-written disclosure referring to non-written	.2003
Date of written dis Kind of non-written disclosure Date of non-written disclosure referring to non-written	·
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